IN THE SPECIFICATION

Please amend the specification as follows:

Page 24, delete the first full paragraph, and replace with:

An embodiment of a gutless viral backbone shuttle vector pShuttle is shown in Figure 1. Sequence portion containing R-ITR, PBR322 ori, Kan, L-ITR, and encapsidation signal was obtained from the pAdEasy® system from ~~Stratagene~~ STRATAGENE®. At bp 3667 of the original pShuttle sequence, there is a BamHI site just beyond the R-ITR. PCR primers were designed to include the BamHI site and then was to create an EcoRI site at the end of the R-ITR. The R-ITR was PCR replicated and then digested with BamHI and EcoRI to create sticky ends. The viral backbone was then cut with both BamHI and EcoRI. The BamHI cut the backbone at bp 3667 and there was also an EcoRI site inside the MCS at bp 377. The backbone portion of the plasmid was then gel purified and the PCR replicated R-ITR was recloned into position. This essentially puts the L-ITR, encapsidation signal, MCS, and R-ITR all in close proximity to each other.

Pages 29-30, last paragraph on page 29 to first paragraph on page 30, please replace with:

The Complete Viral Delivery System composes of 1: 1 mixture of Ham's F12 medium and DMEM, an effective amount of a gutless virus vector carrying a polynucleotide encoding a thrombomodulin protein or a variant of a thrombomodulin protein, and an acellular oxygen carrier. Preferred oxygen carrier includes: unmodified or chemically modified hemoglobin in the range of 3 g/dl to 10 g/dl and perfluorochemical emulsions. The CVDS may optionally contain 1 mM L-glutamine (Sigma), 1.5 g/L sodium bicarbonate (Sigma), 1X antibiotic-antimycotic (~~Gibco~~ GIBCO® 15240), and the CVDM maintains tissue viability during the viral treatment of blood vessel.